

APPARATUS, SYSTEM, AND METHOD FOR GRID BASED DATA STORAGE

Joseph J. Fatula

IBM Docket No.: SJO9-2003-0055US1 (BWB)

Kunzler & Associates Docket No.: 1200.2.94

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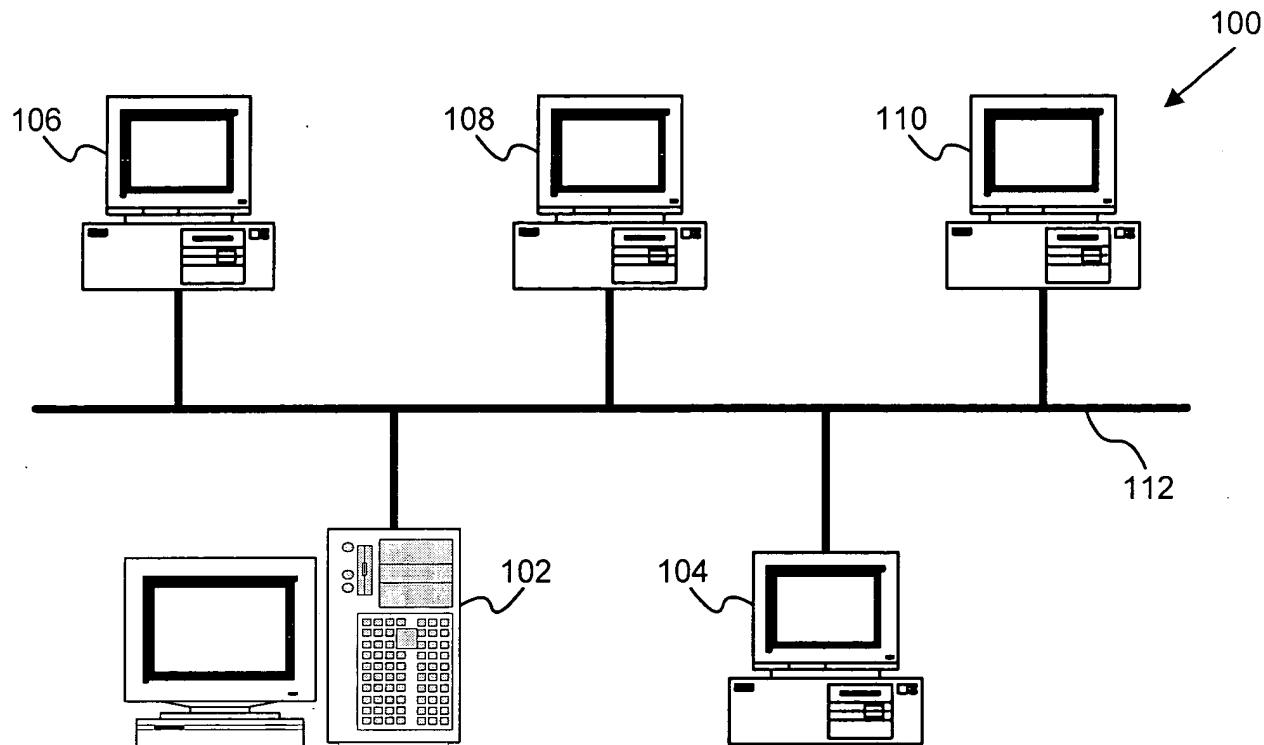


FIG. 1

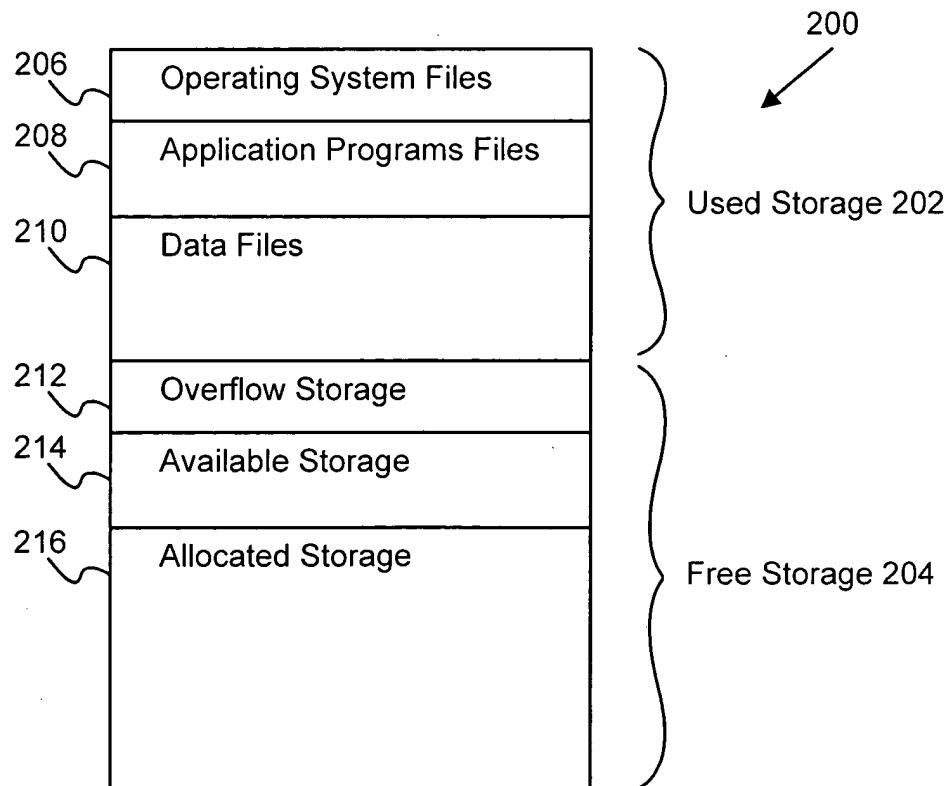


FIG. 2

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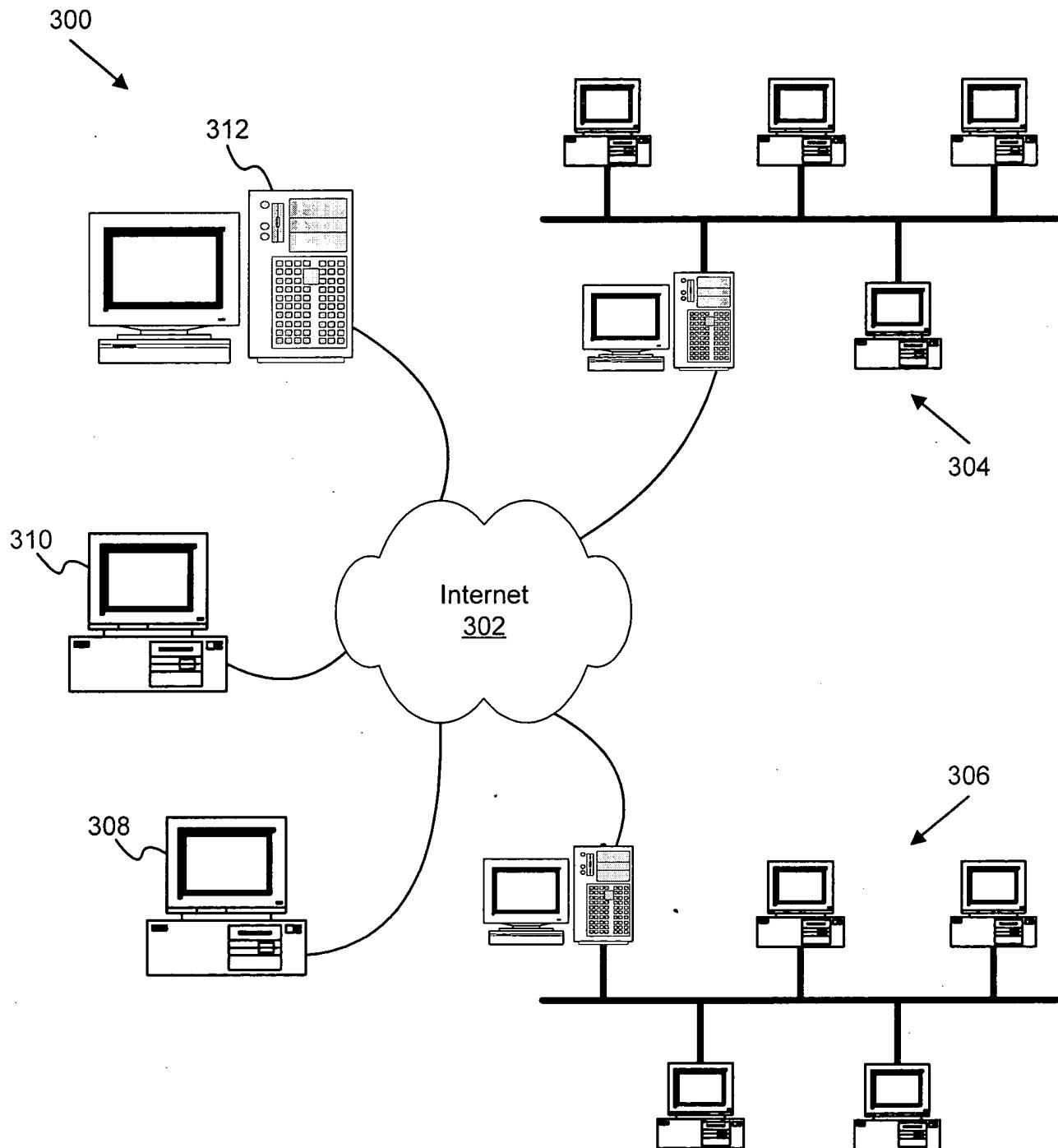


FIG. 3

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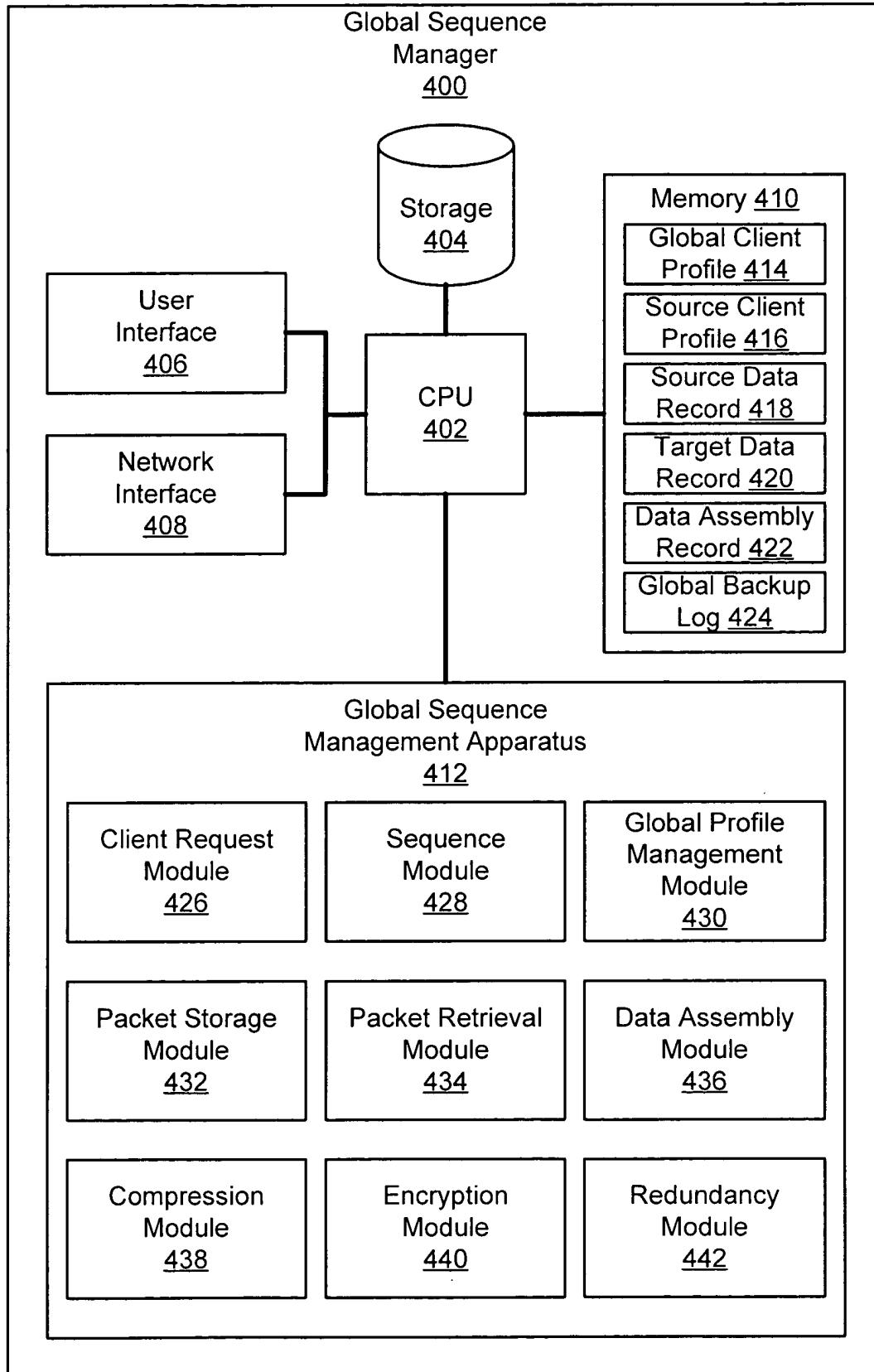


FIG. 4

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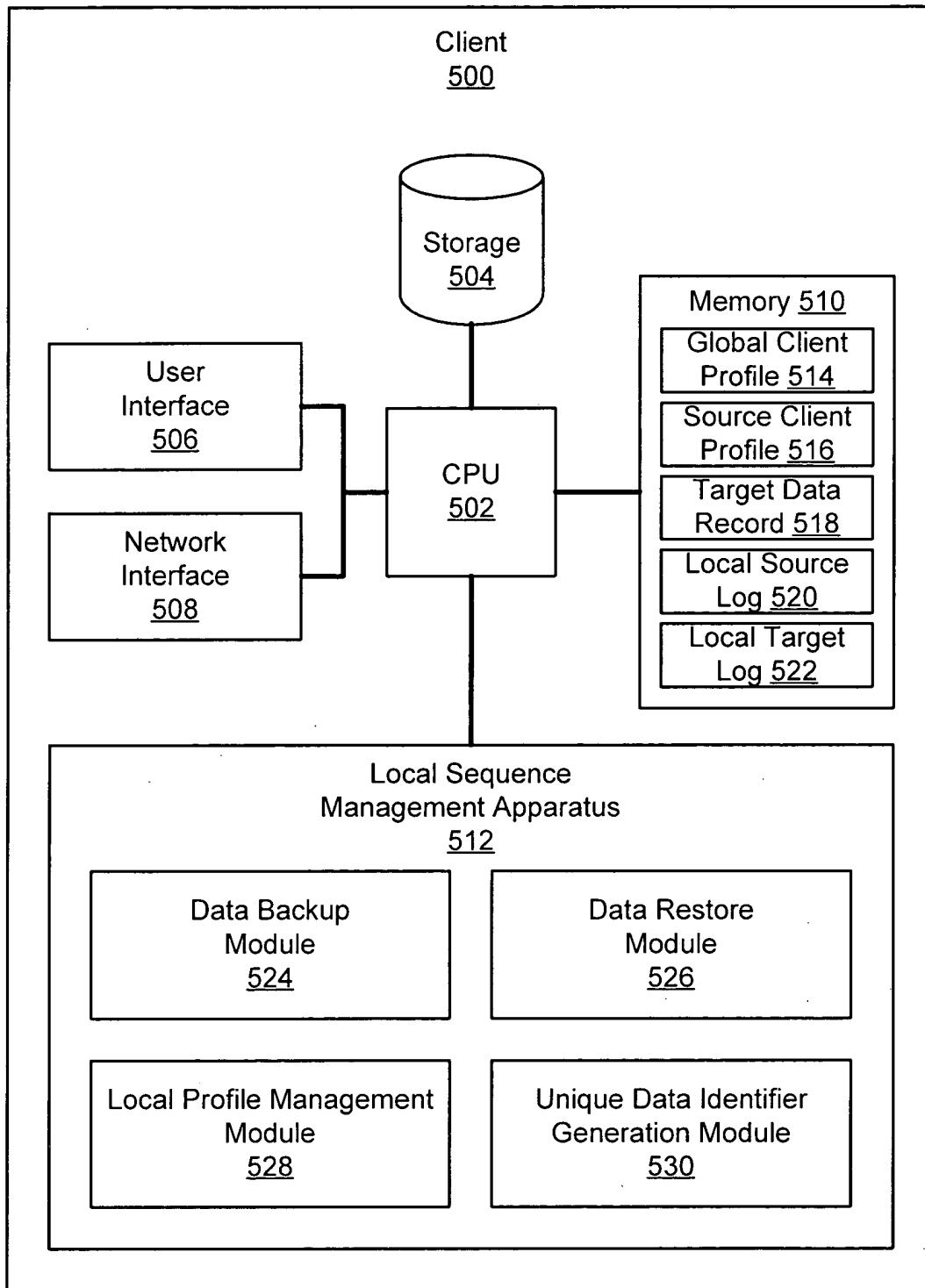


FIG. 5

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Global Client Profile

600

602

604

606

608

610

612

614

616

618

620

622

624

626

Network Identifier <u>602</u>	Network Allocation <u>604</u>	Client Identifier <u>606</u>	Client Packet Compression <u>608</u>	Client Packet Redundancy <u>610</u>	Client Packet Encryption <u>612</u>	Client Backup Proximity <u>614</u>
Client Packet Proximity <u>616</u>	Client Storage <u>618</u>	Client Processor <u>620</u>	Client Bandwidth <u>622</u>	Client Synch. <u>624</u>	Client Auto Archive <u>626</u>	

FIG. 6

Source Client Profile

700

702

704

706

708

710

712

714

716

718

720

Source Client Identifier <u>702</u>	Unique Data Identifier <u>704</u>	Data Source Location <u>706</u>	Data Packet Compression <u>708</u>	Data Packet Redundancy <u>710</u>	Data Packet Encryption <u>712</u>	Client Backup Proximity <u>714</u>
Data Backup Proximity <u>716</u>	Data Packet Proximity <u>718</u>	Data Synch. <u>718</u>	Data Sequence Key <u>720</u>			

FIG. 7

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800
→

Unique Data Identifier <u>802</u>	Packet Identifier <u>804</u>	Target ₁ <u>806</u>	Target ₂ <u>808</u>	• • •	Target _N <u>810</u>
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FIG. 8

900
→

Unique Data Identifier <u>902</u>	Packet Identifier <u>904</u>	Packet Size <u>906</u>	Target Location <u>908</u>
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FIG. 9

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1000
↙

Unique Data Identifier <u>1002</u>	Packet _{1a} <u>1004a</u>	Packet _{1b} <u>1004b</u>	Packet _{1m} <u>1004m</u>
	Packet _{2a} <u>1006a</u>	Packet _{2b} <u>1006b</u>	Packet _{2m} <u>1006m</u>
	Packet _{3a} <u>1008a</u>	Packet _{3b} <u>1008b</u>	Packet _{3m} <u>1008m</u>
	• • •	• • •	• • •
	Packet _{Na} <u>1010a</u>	Packet _{Nb} <u>1010b</u>	Packet _{Nm} <u>1010m</u>

Data Assembly
Record

FIG. 10

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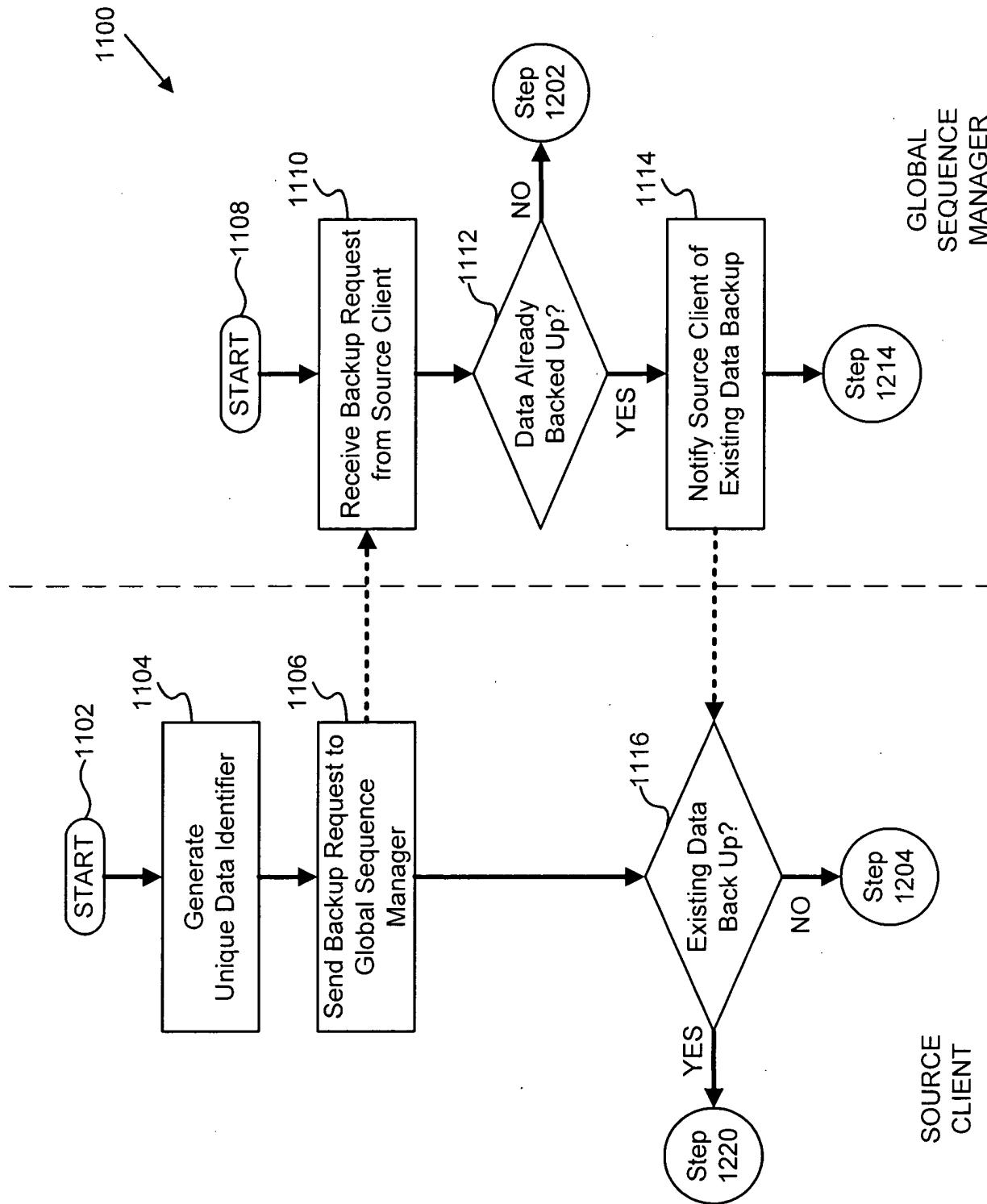


FIG. 11

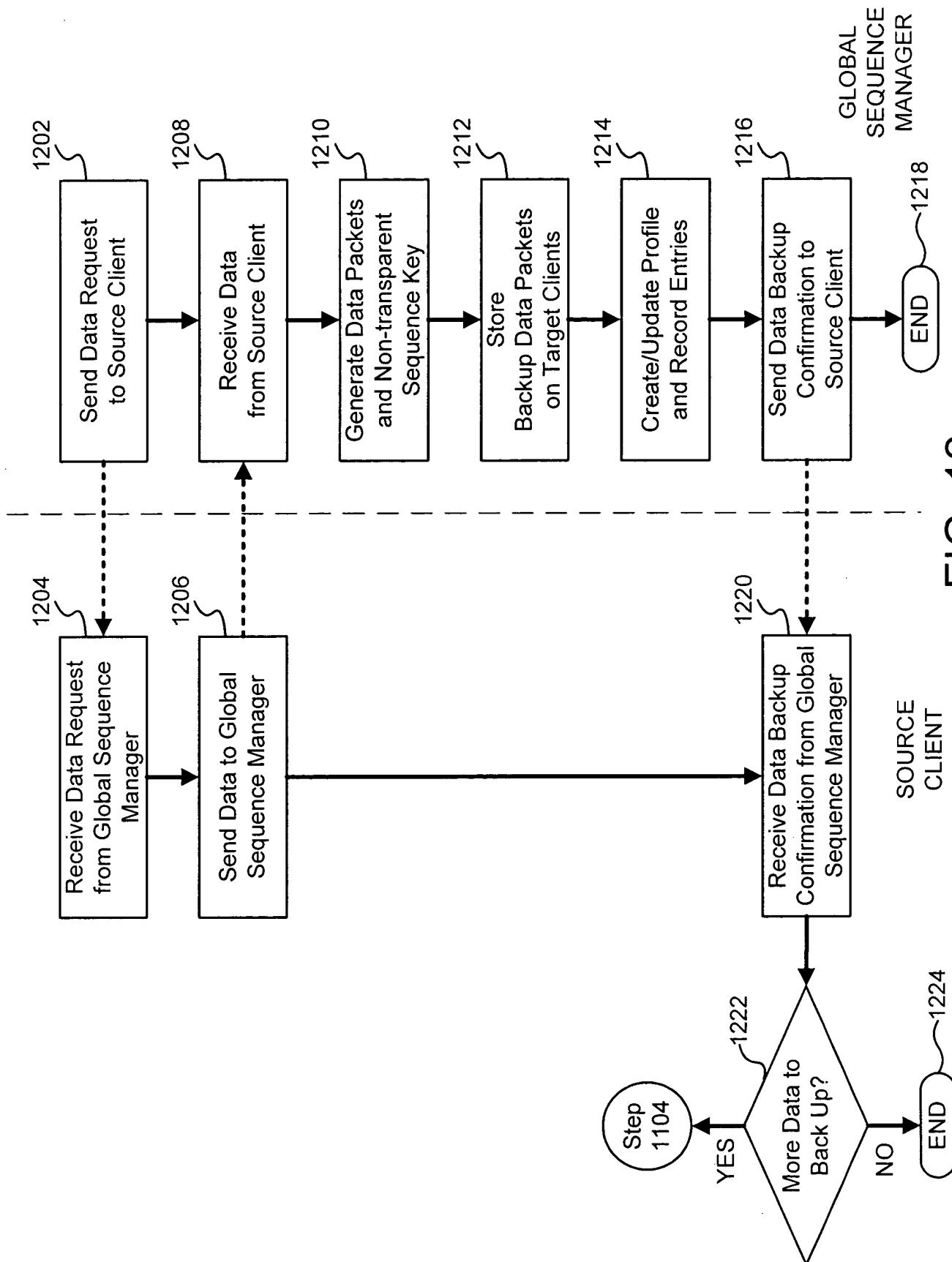
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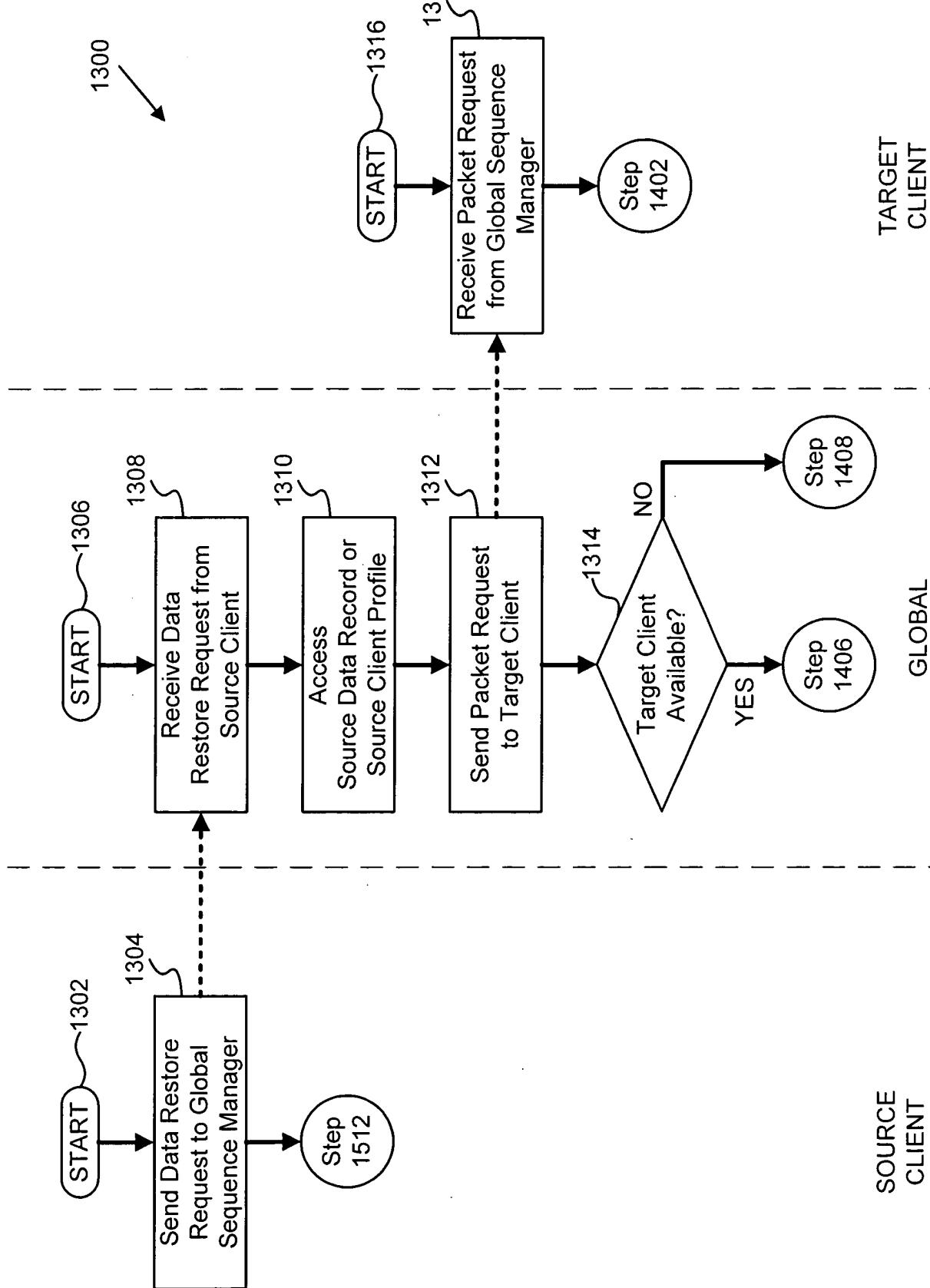


FIG. 13

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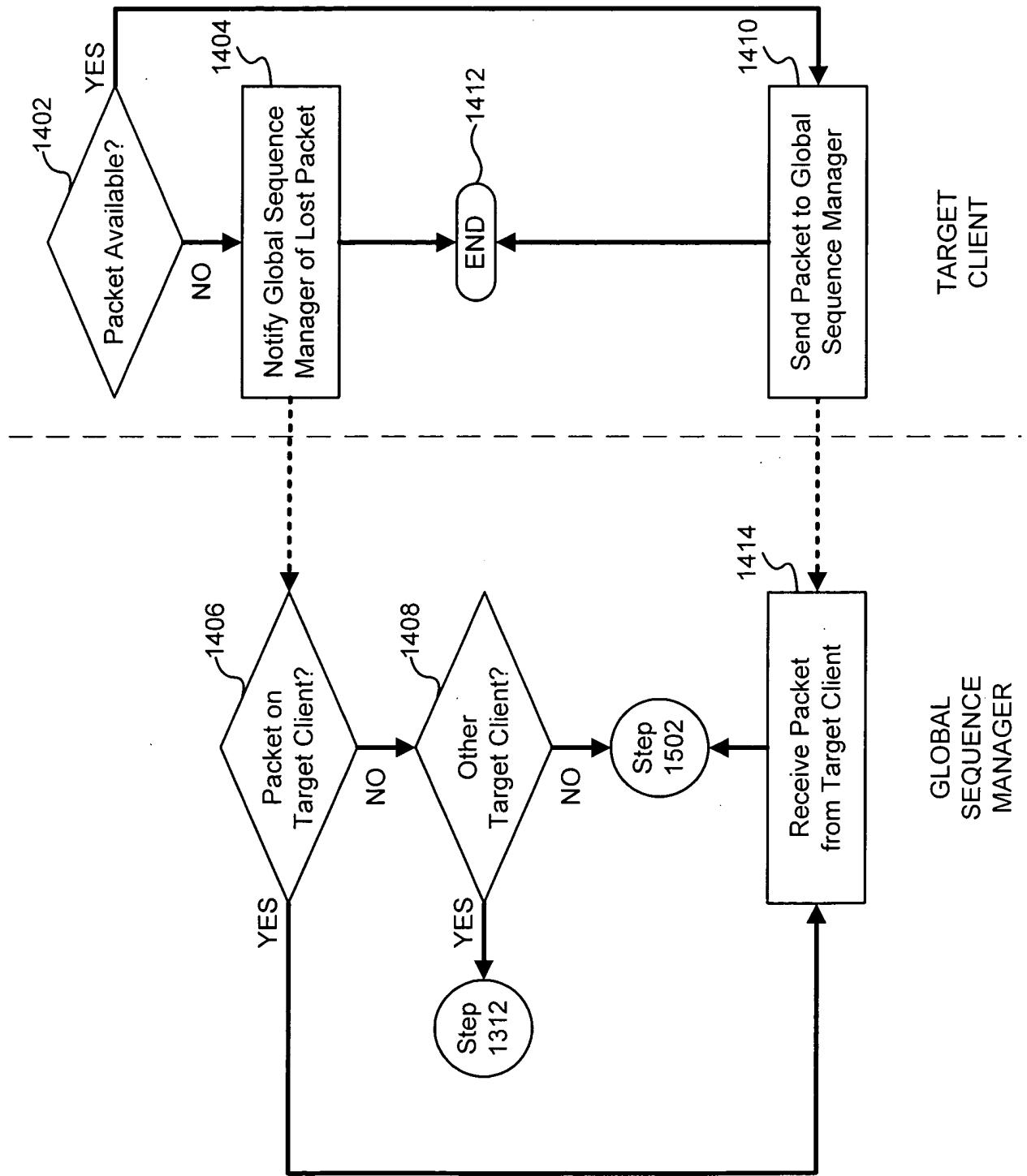


FIG. 14

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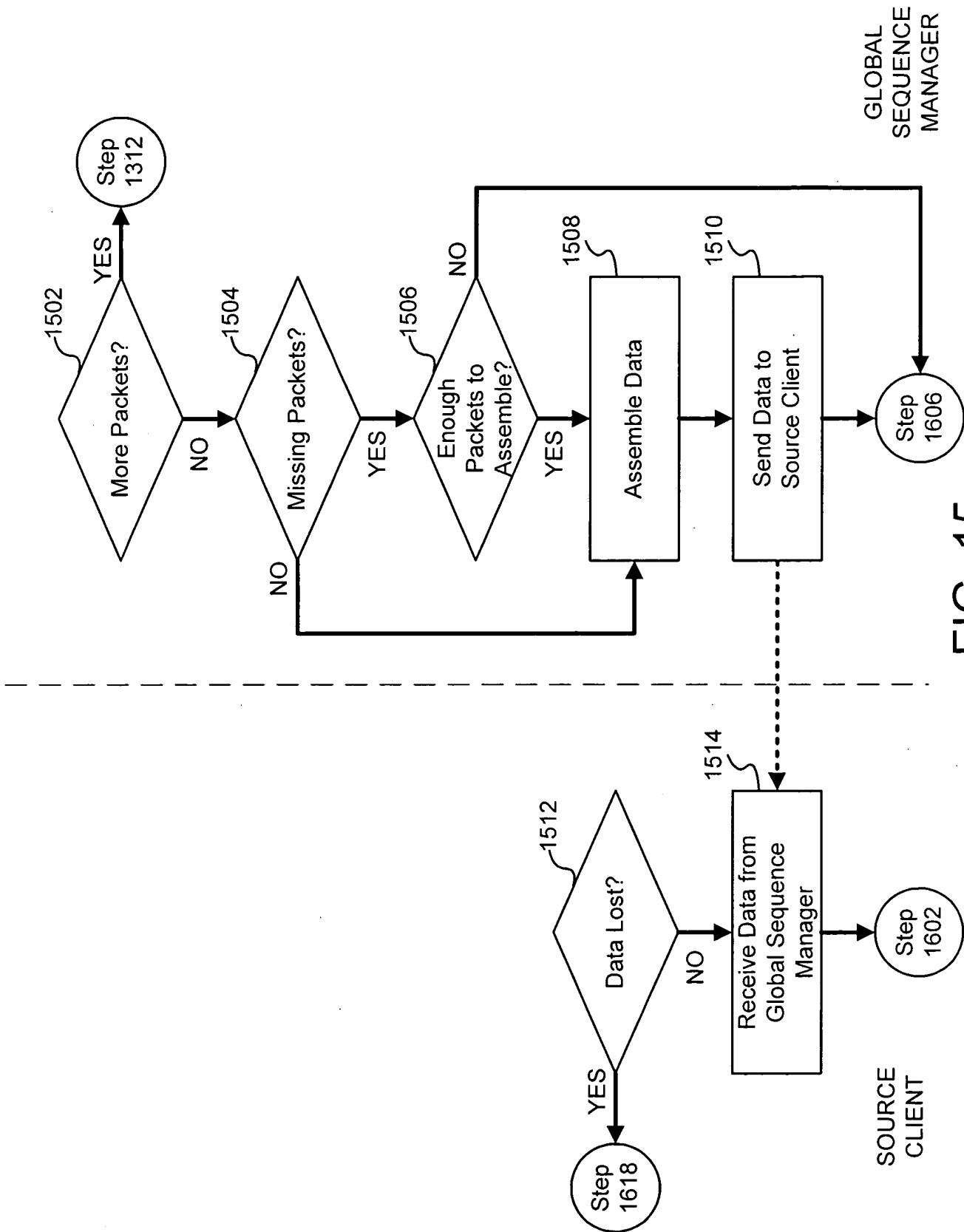


FIG. 15

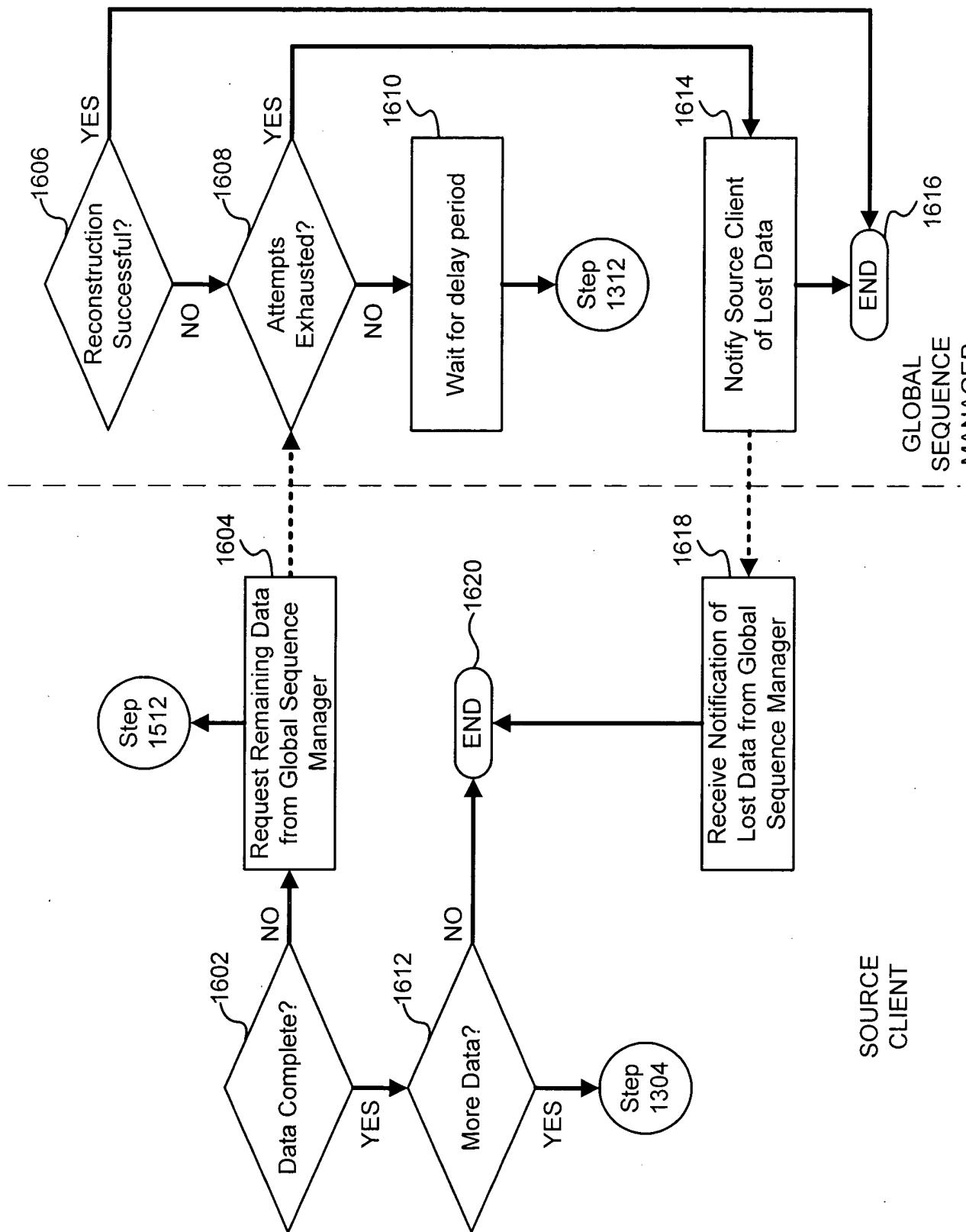


FIG. 16